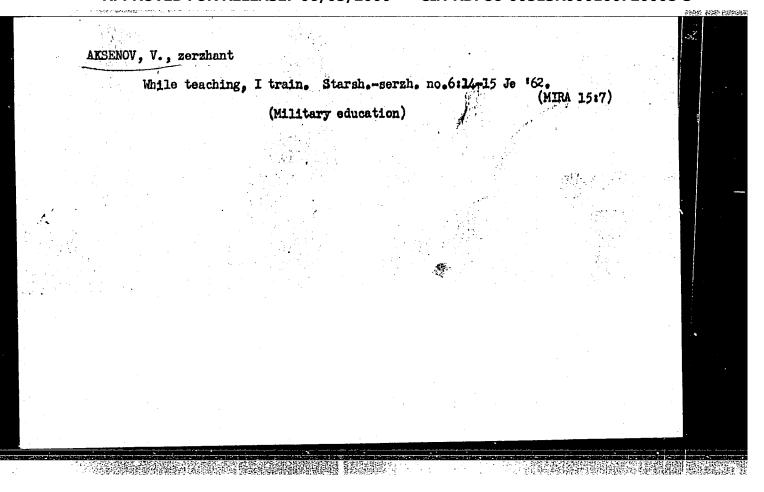


ZHERMIN, M., kand.tekhn.nauk; AKSENOV, V. [Akslonov, V.], kand.tekhn.nauk;

NINIDZE, K., gornyy inzh.; DUKHOVNYY, S., gornyy inzh.

Pay more attention to the extraction of building materials in the republic. Bud. mat. i konstr: 4 no.1:9-13 Ja-F '62. (MIRA 15:7)

(Ukraine—Quarries and quarrying)



"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720008-3

9.4300

S/112/59/000/013/048/067 A002/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 13, p. 227, # 27797

AUTHOR:

Aksenov, V.A.

21

TITLE:

Investigation of the Introduction of Holes in n-type Germanium

by a Pulse Method

PERIODICAL:

Sb. statey nauchn. stud. o-va Mosk. energ. in-ta, 1957, No. 10,

pp. 12-20

TEXT: A conventional pulse method of measuring the lifetime and mobility of charge carriers is discussed and an experimental apparatus is described.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

s/089/62/013/003/004/007 B102/B104

AUTHORS

Brodkin, E. B., Bushuyev, A. V., Polikarpov, Aksenov,

TITLE:

gamma radiation

Atomnaya energiya, v. 13, no. 3, 1962, 271-274

TEXT: No detailed data for the gamma radiation spectrum of Cs 139 being available apart from those of Perkins and King (Nucl. Sci. and Engng. VII, 3, 1958), exact measurements were made, and some new lines discovered. The isotope was separated from the decay products of Kr and X contained in the gas channel of a research reactor by means of an aerosol filter. A scintillation spectrometer was used for studying the y-spectrum, while NaI(T1) and Cal(T1) crystals with D9N-13 (FEU-13) photomultipliers were NEI(TI) and CBI(TI) Crystals with 200-1, (ED-1), photometric pulsed as detectors. The pulses from these were fed into a 100-channel pulse-height analyzer. At E = 0.661 Mev (Cs137) the energy resolution was 9.5% and the non-linearity 1%. The background produced by the Cs138 spectrum was measured, giving results in good agreement with the data of Strominger et al. (Rev. Mod. Phys. 30, no. 2, part II, 1958). The Cs138 Card 1/2

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720008-3"

KLINKOVSHTEYN, G.I., kand. tekhn. nauk,; AKSENOV, V.A., inzh.;

SARKIS'YANTS, E.G., inzh.; SHUMOV, A.V., inzh.;

MANUSADZHYANTS, Zh.G., inzh.; TROSHINA, M.Ya., inzh.;

STETSYUK, L.S., inzh.; PARSHIN, M.A., inzh.; KARPINSKAYA,

I.M., inzh.; FAL'KEVICH, B.S., doktor tekhn. nauk;

ILARIONOV, V.A., kand. tekhn. nauk; POLTEV, M.K., inzh.;

KOGAN, E.I., inzh.; CHIGARKO, G.T., inzh.; KONONOVA, V.S.,

red.

[Traffic safety and safety measures in automotive transportation] Bezopasnosti dvizheniia i tekhnika bezopasnosti na avtomobil'nom transporte. Moskva, Transport, 1964. 74 p. (MIRA 18:1)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'ski; institut avto-mobil'nogo transporta. 2. Moskovskiy avtomekhanicheskiy institut (for Fal'kevich). 3. Moskovskiy avtomobil'no-dorozhnyy institut imeni Molotova (for Ilarionov). 4. Vse-soyuznyy zaochnyy politekhnicheskiy institut (for Poltev).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100720008-3"

MYNKIN, A.Ye.; GONCHAROV, T.K., elektromekhanik; AKSENOV, V.D.

Semiconductor converters for supplying relectmentication apparatus.
Avtom., telem. i sviaz' 2 no.10:25-28 0 '58. (MIRA 11:10)

1.Nachal'nik laboratorii signalizatsii i svyazi Yugo-Vostochnoy dorogi (for Mynkin). 2.Nachal'nik otdela svyazi Yugo-Vostochnoy dorogi (for Aksenov).

(Electric current converters)

MYNKIN, A.Ye.; GUNCHAROV, T.K., elektromekhanik; AKNENOV, V.D.

Modernizing low-power rectifiers. Avtom.telem. i sviaz'
3 no.12:24-25 D '59. (MIRA 13:4)

1. Nachal'nik laborstorii signalizatsii svyazi Yugo-Vostochnoy dorogi (for Mynkizi). 2. Nachal'nik otdela svyazi Tugo-Vostochnoy dorogi (for Aksenov).

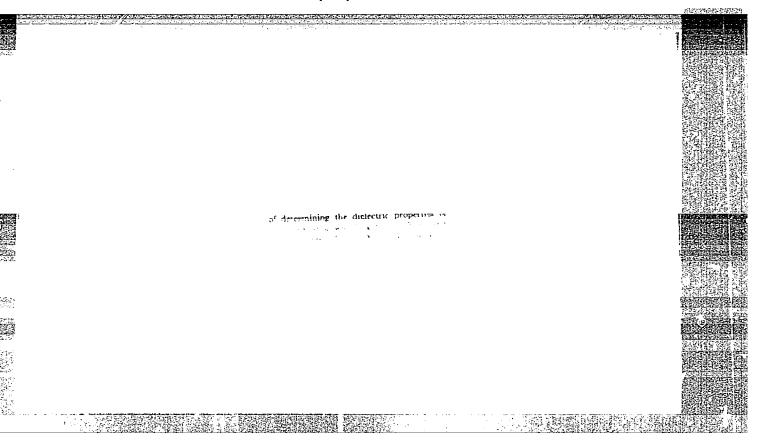
(Electric current rectifiers)

AKSENOV, V.F., starshiy inshener.

From the memory of the engineer in charge of the Hovorossiysk electric power plant. Elektrichestvo no.12:68-69 D '53. (MLRA 6:11)

1. Tekhotdel V/O Vostoksagotserno. (Novorossiysk electric power plants)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100720008-3"



MKSENOV. VI

109-1-13/18

AUTHOR: Aksenov, V.I.

TITLE: Determination of the Losses of Magneto-Dielectric Materials at Ultrahigh Frequencies (K opredeleniyu poter' magnito-dielektricheskikh materialov na sverkhvysokikh chastotakh)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol.III, Nr 1, pp.156-157 (USSR)

ABSTRACT: Formulae for the determination of the overall losses of magneto-dielectric materials are given. The formulae are valid for the case when the losses are low. If the losses are determined experimentally by the short circuit test in a measuring waveguide section, the resultant loss tangents are expressed by Eq.(1), where parameters x and y are determined by Eqs.(2) and (3); λ and λ_g are wavelengths in the free space and in the waveguide respectively, λ_{KD}

is the critical wavelength for the waveguide, d is the thickness of the measured sample, k is the standing wave ratio, L is the distance between the surface of the magneto-dielectric sample and the first minimum of the standing wave. If the overall losses are to be determined from an open circuit test, the loss tangents are also ex-

Card 1/2

109-1-18/18

Determination of the Losses of Magneto-Dielectric Materials at Ultrahigh Frequencies

pressed by Eq.(1) but parameters x and y are given by Eqs.(5) and (6) respectively. The author expresses his gratitude to Prof. L. A. Zhekulin for his valuable advice. There are 2 English and 3 Russian references.

SUBMITTED: March 13, 1957

AVAILABLE: Library of Congress

Card 2/2

SOV-109-3-4-1/28

AUTHOR: Aksenov, V. I.

TITLE: Scattering of Electromagnetic Waves from Sinusoidal and Trochoidal Surfaces having Finite Conductivity (O rasseyanii elektromagnitnykh voln na sinusoidal'nykh i trokhoidal'nykh poverkhnostyakh s konechnoy provodimost'yu)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 4, pp 459-466 (USSR)

ABSTRACT: The scattering of electromagnetic waves from a limited area of an irregular surface is considered. The surface is assumed to be rectangular, and has dimensions d and \$\mathbb{L}\$. For the purpose of analysis, the rectangular system of co-ordinates x, y, z is chosen in such a manner that its origin coincides with the centre of the "illuminated" area and the axes x and y are parallel to the sides d and \$\mathbb{L}\$ of the rectangle. The irregularity of the surface is described by a periodic function \$Z = Z(x)\$, having a period \$\Lambda\$. The dimensions d and \$\mathbb{L}\$ are assumed to be much greater than the wave length \$\lambda\$ of the incident radiation and d is also greater than the periodicity \$\Lambda\$ of the surface. It is further assumed that the electrical properties of the scattering surface can be described by a complex permeability \$\mu\$ and a complex permittivity \$\mathbb{E}\$. The

SOV-109-3-4-1/28

Scattering of Electromagnetic Waves from Sinusoidal and Trochoidal Surfaces having Finite Conductivity.

incident wave impinging on the surface is monochromatic and its wave vector \vec{k}_0 lies in the plane xz. The problem consists of determining the scattered field at a point P situated at a distance R from the origin of the coordinates (see the figure on p 460). It is assumed that R is comparatively large. The scattered field at a large distance from the origin can be expressed by the complex Kirchhof integral:

$$\vec{E}(P) = -\frac{J\omega\mu_{o}}{4\pi} \frac{e^{-JkR}}{R} \int_{S} \left\{ \vec{n}\vec{H} - \vec{R}_{1}(\vec{n}\vec{H})\vec{R}_{1} + \sqrt{\frac{\epsilon_{o}}{\mu_{o}}} [\vec{E}\vec{n}]\vec{R}_{1} \right\} e^{i\vec{k}_{0}\vec{R}_{dS}}$$
(1)

where h is the unit vector of the internal normal to the surface; H , H are the values of the field at the Card 2/5

SOV-109-3-4-1/28

Scattering of Electromagnetic Waves from Sinusoidal and Trochoidal Surfaces having Finite Conductivity

surface, $\beta = ix + jy + kZ(x)$ is a vector drawn from the origin of the co-ordinates to a surface element dS; $\vec{R}_1 = i \sin \alpha + k \cos \alpha$ is a unit vector directed from the origin of the co-ordinates to point P. Integration of Eq(1) is carried out over the whole "illuminated" area. If the incident wave is vertically polarised, its field components can be expressed by Eqs(5) from which it follows that the solution of Eq(1) is in the form of Eq(6), where

 $p = \sqrt{\frac{\mu^*}{\epsilon^*}}$. In a horizontally polarised incident wave,

having components expressed by Eq(7), the scattered field is expressed by Eq(8). Eqs(6) and (8) are the basic expressions for the evaluation of the scattered fields. If it is assumed that the scattering surface is described by $Z(x) = -a \cos Kx$, where a is the "undulation" amplitude and K = 2%, the scattered field of a vertically polarised wave is expressed by Eq(10), where $\xi = Kx$, and β and γ are expressed by Eqs(11) and (12); if (ξ) is a periodic function expressed by Eq(13) which can be expanded

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Scattering of Electromagnetic Waves from Sinusoidal and Trochoidal Surfaces having Finite Conductivity

into the Fourier series, as shown by Eq(14). The second part of the integral in Eq(10)can be expanded into a Bessel function series as given by Eq(15), from which the integral can be written in the form of Eq(16). The solution of the integral is given by Eq(18). For a horizontally polarised wave, the periodic function of the integral of Eq(8) is represented by Eq(19), whose solution is given by Eq(21). For a trochoidal surface which is described by Eqs(23), the scattered field from a vertically polarised wave is expressed by Eq(25). The solution of these is in the form of Eq(28). A similar solution can be found for a horizontally polarised incident wave; the periodic function to be expanded into the Fourier series is in the form of Eq.(28). The above theoretical formulæ, in particular, Eqs. (17), (21), (27) and (28) can be used to evaluate the amplitudes of the scattered waves for the surfaces having a finite conductivity. A numerical example of such a calculation is given for a sinusoidal surface having the following

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SOV-109-3-4-1/28

Scattering of Electromagnetic Waves from Sinusoidal and Trochoidal Surfaces having Finite Conductivity

> characteristic parameters: $\Lambda/a = 10$, $\Lambda/\lambda = 3.75$ and p = 0.2 + j0.05. The author expresses his deep gratitude to Prof. L. A. Zhekulin for his constant attention and help. There is 1 figure and 5 references, 1 of which is English and 4 Soviet.

SUBMITTED: July 25, 1957

- Electromagnetic waves--Scattering
 Electromagnetic waves--Theory
 Surfaces--Electrical properties
 Functions--Applications
- 5. Kirchhof integrals--Applications 6. Fourier's Series--Applications

Card 5/5

5(4)

AUTHORS: Kuznetsov, V. A., Aksenov, V. I.,

SOV/20-128-4-35/65

Klevtsova, M. P.

TITLE:

Zero Charge Potentials of Tellurium-Thallium Alloys

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4,

pp 763-766 (USSR)

ABSTRACT:

The system Te-Tl was chosen because the two components - according to data by S. Karpachev and A. Stromberg (Ref 1) - have very different zero charge potentials facilitating the determination of the dependence of the zero charge potential of an alloy on its composition. The zero charge potentials were determined by investigating the electrocapillary properties of the liquid metals and alloys. The potential of the capillary electrodes was referred to an electrode of fused lead, the experimental temperature was 475°. Figure 1 shows the electrocapillary curves of the two components and their alloys. An addition of Tl (up to 25 atom%) to Te lowers the maxima of the electrocapillary curves. At

a high content of Tl, omax increases again. Similar observa-

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tions were made by A. N. Frumkin and A. V. Gorodetskaya (Ref 4)

Zero Charge Potentials of Tellurium-Thallium Alloys SOV/20-128-4-35/65

on the electrocapillary curves of Hg and Tl amalgam. They explained this phenomenon by the fact that the field of the electric double layer influences the adsorption of the alloying constituents in the surface film. Figure 2 shows the dependence of the zero charge potential on the composition of the alloy. With an increasing content of Tl, the zero charge potential shifts in the negative direction. According to A. N. Frumkin, this is explained by a varying charge of the Tl adsorbed on the surface film. Θ_2 is determined - the fraction of the surface film occupied by particles of the second component (Tl). From the equation

determined - the fraction of the surface film occupied by particles of the second component (T1). From the equation $d\sigma_{\max} = -\Gamma_1 d\mu_1 - \Gamma_2 d\mu_2 \ (\Gamma_1 = \text{Gibbs' surface density of Te, } \Gamma_2 = \text{the same for 11, } \mu_1, \ \mu_2 = \text{chemical potentials for Te and Tl), an equation is derived for } \Gamma_1 = 0: \Gamma_2 = \frac{d\sigma_{\max}}{d\mu_2}$

The activity of Tl was determined by measuring the **electro**-motive force of the concentration chain Tl/eutectic mixture LiCl +KCl + 2% by weight of TlCl/alloy Tl-Te. The measurement results are given in table 1. Figure 3 shows the

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Zero Charge Potentials of Tellurium-Thallium Alloys SOV/20-128-4-35/65

dependence of $\binom{1}{2}$ on the alloy composition. A strong deviation from Raoult's law is ascertained. This suggests that the surface film consists of dipoles and is not monomolecular. Similar phenomena were observed for the Tl amalgam by A. N. Frumkin and N. S. Polyanovskaya (Ref 6). Therefore, the potential shift for mono- and bimolecular layers was computed (Table 2), the assumption of a bimolecular layer showing a better agreement with the experimental data. The computation of θ_2 confirms the assumption made by A. N. Frum-

kin (Ref 4) stating that the shift of the zero charge potential is directly proportional to the fraction of the surface film occupied by the metal added. There are 3 figures,

2 tables, and 7 references, 6 of which are Soviet.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo

(Ural State University imeni A. M. Gor'kiy)

PRESENTED: April 13, 1959, by A. N. Frumkin, Academician

SUBMITTED: March 5, 1959

Card 3/3

69919

24,2400

\$/109/60/005/05/007/021 E140/E435

AUTHOR:

Aksenov, V.I.

TITLE:

Application of the Method of Variable Reactive Load to

Measure the Dielectric Properties of Materials

PERIODICAL: Radiotekhnika i elektronika, 1960, vol 5, Nr 5,

pp 771-781 (USSR)

ABSTRACT:

The method employs impedance circle-diagrams to

determine the dielectric parameters of non-ferromagnetic materials with medium and high losses. Nomographs are given for rapid calculation of the dielectric parameters. Acknowledgements are expressed to L.A. Zhekulin for his

interest in the work and to K.P.Moiseyeva and

Yu. A. Aleksandrov for calculating the nomograms. are 9 figures, 2 tables and 6 references, 3 of which are

Soviet, 2 English and 1 French.

SUBMITTED:

July 30, 1959

Card 1/1

5/109/61/006/003/001/018 E032/E314 9.9000 (incl. 2205,2305; also 1127) AUTHOR: Aksenov, V.I. Application of the Kirchhoff Approximation to the TITLE: Scattering of Electromagnetic Waves by Periodically Uneven Surfaces with a Finite Conductivity PERIODICAL: Radiotekhnika i elektronika, 1961, Vol. 6, No. 3. pp. 347 = 354 TEXT: In a previous paper (Ref. 3) the present author used the Kirchhoff approximation to discuss the scattering of electromagnetic waves by a finite portion of a periodically uneven surface having a finite conductivity. Solutions were obtained for a surface which is periodically uneven in one direction only. In the present paper, the theory is extended to the case of a surface which is periodic in two directions. The scattering surface is given by an expression of the form z = Z(x, y). It is assumed that the wave vector of the incident plane monochromatic wave and the point of observation P lie in the plane xz . At large distances from the scattering surface the field for a surface periodic Card 1/6.

(1916年) 我们还是我们的现在分词,我们是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	\$35521BE1654561\$1
21647 5/109/61/006/003/001/018 E032/E314 Application of	
in two directions is given by the following formulae: in two directions is given by the following formulae: a) vertical polarisation (electric vector of the incident a) vertical polarisation (electric vector of the incident wave in the xz plane)	
$\vec{E}(P) = i \frac{E_0}{\lambda} \frac{e^{-jkR}}{R} \left\{ \left(-i\cos\alpha + \vec{k}\sin\alpha \right) \left[\left(1 + p\cos\theta \right) \left(-n_z\cos\alpha - n_z\cos\alpha \right) \right] - n_z^2 \left(1 + \cos\alpha + n_z\cos\alpha \right) \right\} - n_z^2 \left(1 + \cos\alpha + n_z\cos\alpha \right) \right\} - n_z^2 \left(1 + \cos\alpha + n_z\cos\alpha \right) $	
$-n_x \sin \alpha + p) - pn_y (1 + \cos(\alpha) + p \sin(\tau - \alpha)) \times$ $-j pn_y [n_x (\cos \tau + \cos \alpha) - n_x (\sin \tau + \sin \alpha) + p \sin(\tau - \alpha)]) \times$ $\cos \theta + cos \theta +$	
b) horizontal polarisation (electric vector perpendicular	
to the xz plane)	
card 2/6	

Application of S/109/61/006/003/001/018 E032/E314 $E(P) = i\frac{E_s}{\lambda} \frac{-j_{RR}}{m_s} \{(-i\cos\alpha + k\sin\alpha) n_y [-\sin(\tau - \alpha) + \frac{1}{2} + pn_s (\sin\tau + \sin\alpha) - pn_s (\cos\tau + \cos\alpha)] - \frac{1}{2} (2)$ $-i[(\cos\theta + p)(1 - pn_s \sin\alpha - pn_s (\cos\tau + \cos\alpha)] - \frac{1}{2} (2)$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)]\} dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)] dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)] dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)] dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)] dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)] dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)] dS.$ $\times \frac{\cos\theta}{(1 + p\cos\theta)(\cos\theta + p)} \exp\{ik[x(\sin\tau + \sin\alpha) + 2(x,y)(\cos\tau + \cos\alpha)] dS.$ $\times \frac{\cos\theta}{(1 + p\cos$

35 · · · · · · · · · · · · · · · · · · ·	216h7 s/109/61/006/003/001/018 E032/E314
40	expressions are the same as those in Ref. 3. In particular, it is assumed that the linear dimensions of the scattering area (which was taken in the form of a rectangle with sides d and () are much greater than the wavelength λ of the incident wave and the period of the surface and that the magnetodic lectric parameters satisfy the inequality
ans Bo	$\left \mu^* \epsilon^* \right > 1$. These formulae are then applied to the following two special cases: $Z(x, y) = -a \cos Kx \cos K'y$ (sinudoidal surface) and $z = \pm \frac{4a}{\Lambda} \left[\frac{x}{\Lambda} - \left(n + \frac{1}{4}\right) \right],$
36	$n = 0, \pm 1, \pm 2, \dots$ where the upper sign is taken for Card 4/6

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Application of

S/109/61/006/003/001/018 E032/E314

$$\binom{n-\frac{1}{2}}{\Lambda} \leqslant x \leqslant n\Lambda$$
 and the lower sign for $n \Lambda \leqslant x \leqslant \binom{n+\frac{1}{2}}{\Lambda}$ (Sawtooth surface). The solution

for the sawtooth surface is obtained in a closed form while the solution for the sinusoidal surface is obtained in the form of a rapidly converging series. The approximate solution of the problem obtained for the sinusoidal surface with a finite conductivity indicates that in the case of the sinusoidal surface the scattered field will be elliptically polarised if the incident wave is linearly polarised. The computation of the Kirchhoff integral with the aid of the Fourier expansion, which is used in the present paper, is said to be capable of extension to other cases of surfaces with finite conductivity. The results obtained for the doubly sinusoidal surface are in agreement with those of Hoffman (Ref. 4). Acknowledgments to L.A. Zhekulin, who initiated the present work.

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Application of

S/109/61/006/003/001/018 E032/E314

There are 2 figures, 2 tables and 4 references: 3 Soviet and 1 non-Soviet.

SUBMITTED: July 7, 1960

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APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100720008-3"

COLUBTSOV, Mikhail Georgiyevich; AKSENOV, V.I., red.; YEMZJIIN, V.V., tokhn. red.

[Temperature stability of narrow-band electromechanical filters] Temperaturnaia stabil'nost' uzkopolosnykh elektromekhanicheskikh fil'trov. Moskva, Gosenergoizdat, 1962. 59 p.

(Radio filters)

(MIRA 15:7)

"On the Propagation of Electromagnetic Waves in a Magnetoactive Plasma at Below the Plasma Frequency"

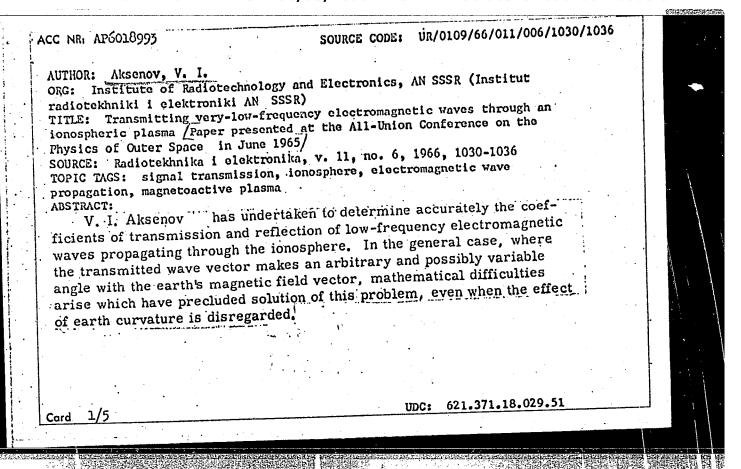
Report presented at the Massachusetts Institute of Technology (MIT) Physical Electronics Conference. Cambridge, Massachusetts, 21-23 March 62.

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BSTRACT: The Conference was held for the conference was he	cientisto	theory lor magnetohyd	rodynamic	
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and visible radiation. Several papers were devoted to the theory of waveguides and resonators partially or completely filled with anisotropic media. S. Przezdziecki reported on studies in which he obtained a strict solution to the problem of elec-	
tromagnetic wave diffraction by an ideally conducting half plane perpendicular to the isolated main axis of a uniaxial anisotropic medium. S. Pogozelski presented a paper on analysis of the field radiated by an antenna with a reflector. His	
asymptotic solution is applicable to wavelengths which are small in comparison to the dimensions of the reflector. A report by L. Wegrowicz was dedicated to a theoretical analysis of distribution of the field in an antenna aperture as a function	
of requirements for the directivity pattern and scanning of the antenna. Several reports were devoted to propagation of electromagnetic waves in plasma-filled waveguides. The results of these papers may be used in designing various plasma-type SHF elements: attenuators, phase inverters, switches, valve devices, etc. [14]	
ASSOCIATION: none	
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ACCESSION NR: AT5023590	UR/0000/65/000/000/0233/0234
AUTHOR: Aksenov, V. I.	a. 65 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
TITLE: Transmission of superlow from	equency electromagnetic waves through the iono-
spheric plasma	
COURCE. Veccoviznova konferentsiva	po fizike kosmicheskogo prostranstva. Moscow,
1965. Issledovaniya kosmicheskogo	prostranstva (Space research); trudy konferential.
Moscow, Izd-vo Nauka, 1965, 233-234	
TOPIC TAGS: low frequency, very lo	w frequency, extremely low frequency, longitudinal
wave	
ARSTRACT: A precise solution was O	btained for the problem of the transmission of
SIF mlone electromagnetic waves thr	ough a plane layered magnetoactive ionospheric
the wave normal and the direction of	propagation (the angle between the vector of of the external magnetic field equals zero and the
magnetic field is nemendicular to	the lavers). Formulas were then derived for de-
termining the reflection and transm	dission coefficients for extraordinary and ordin- for reflection and transmission coefficients in
a frequency range from 1.5 to 100 kg	eps for day and night models of the ionosphere.

L 1544-66 ACCESSION NR: AT5023590	والمداعين والمرابط والمتابي والمناب والمنابعة والمتابعة		
It was established that in	the investigated frequency r	ance ordiname variation	
frequency of 20 kcps). It	was shown that electronsecti	monotonically (to 1% at a	
calculation requite achieves	3 has an	CONTINUE OF A LOB TUE	177
cide with the precise solut	of approximating the geomet	crical optics did not coin-	
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cide with the precise solution 10 kcps, and this difference has: 1 figure.	of approximating the geomet	frequencies lower than of frequency. Orig. art. [JA]	
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cide with the precise solution of the solution	ion of the wave equation for increased with the decrease ENCL: 00 OTHER: 001	frequencies lower than of frequency. Orig. art. [JA]	



ACC NR. AP6018993

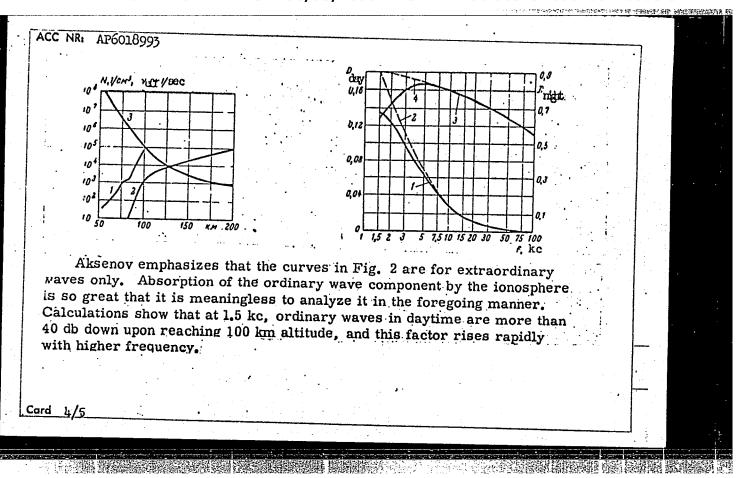
In practice it is an acceptable approximation to use an optical model to find transmission coefficients, provided that the following inequality is satisfied:

$(c/\omega)(|d\tilde{n}/dz|/|\tilde{n}|^2)\ll 1$

where $\bar{n} = n - j\kappa$ is the complex index of refraction and ω is the signal frequency. However, below the VLF range this criterion is clearly not met. Calculations show that at frequencies of a few kilocycles, the left-hand side of the expression rises to the order of 1 in the ionosphere, under both day and night conditions; hence the optical model breaks down.

Aksenov therefore attempts a rigorous solution for propagation at ELF-VLF frequencies through a simplified magnetoactive ionospheric plasma. His model assumes that plasma parameters vary only in the z (vertical) direction, and that a plane wavefront signal is generated, also vertically. Effects of ionic and molecular motion are neglected. An arbitrary layer of plasma $z_0 \leqslant z \leqslant z_1$ is investigated, whose lower boundary z_0 is taken to be the upper limit of free-space propagation conditions, i.e., where \bar{n} ceases to be unity. Proceeding from the wave equation for propagation through the interval from z_0 to z_1 , and from the expression for \bar{n} in the usual terms of plasma frequency, electron gyrofrequency, and electron collision frequency, the author derives expressions

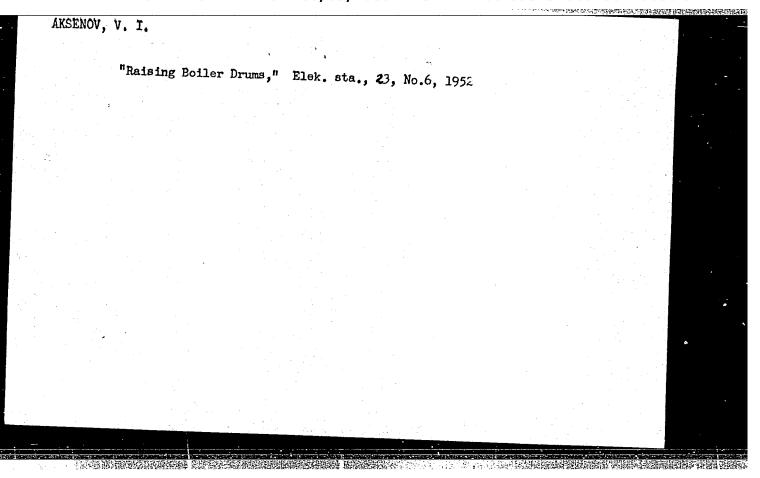
ACC NR. AP6018993-. for the desired transmission and reflection coefficients over the assumed interval. The derived equations were integrated on a BESM-2 computer, assuming height intervals of 50-100 km for daytime and 80-200 km for nighttime conditions, at frequencies from 1.5 to 100 kc. The geomagnetic latitude was assumed to be 50°. Electron density and effective collision frequency as functions of altitude were taken to be as in Fig. 1, which agrees closely with the figures reported by Fligel and others The transmission coefficient (D) for both day and night conditions could then be calculated (Fig. 2, solid lines). The broken lines in Fig. 2, obtained using the optical model, demonstrate the discrepancies at low frequencies; the optical model does not reveal, for example, the peak of D at 4 kc at night, which is in the optimum whistler mode range. Fig. 1. Density and collision Fig. 2. Ionospheric transmission frequency coefficients 1 - Electron density, day; 1, 2 - Day; 3, 4 - night. Curves 2 - electron density, night; 2 and 4 from optical model." 3 - collision frequency.



ACC NR. AP6018993 Calculated reflection coefficients for incident signals were also obtained, and are shown in the three curves of Fig. 3. The similarity of the three curves is apparently due to the fact that the reflective layer occurs near the lower ionosphere 0,6 boundary, where there is little difference between day and night refractive 0,4 behavior. 0,2 In summarizing his findings, Aksenov reiterates the main point: that for signal frequencies below about f ke 5 kc, the optical model becomes increasingly erroneous for analyzing Fig. 3. Ionospheric reflection propagation through the ionosphere. coefficients :1 - Extraordinary wave, day; 2 - extraordinary wave, night; 3 - Ordinary wave, day.

The author thanks L. A. Zhekulin for interest in the work for valuable comments and V. D. Gus'kovaya who programmed and carrier out the calculations on the BESM-2. [FSB: v. 2, no. 8] SUB CODE: 20 / SUBM DATE: 31Mar65 / ORIG REF: 006 / OTH REF:

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AKSEROV, V.I., inshener; SOGOLOV, A.A., inshener.

Preventing the rise of the small drum of the TP-170 boiler.

Blek.sta. 27 no.2:53-54 F '56.

(Boilers)

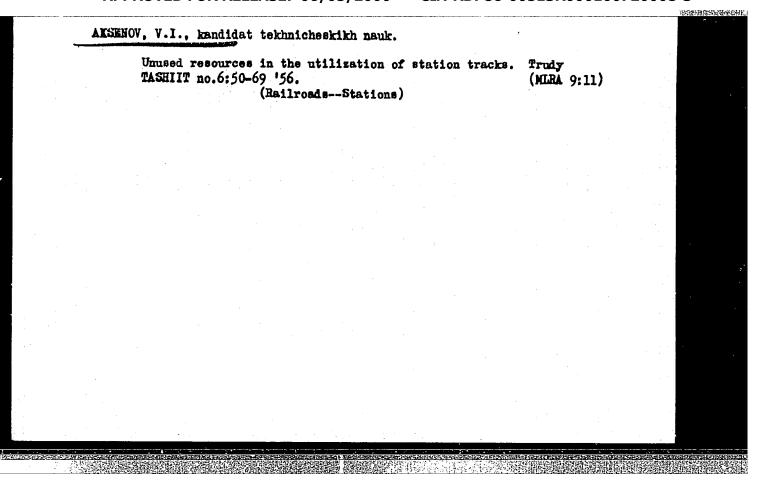
(Boilers)

AKSENOV, V., kand.tekhn.nauk (Tashkent); BELEU'KIY, M., kand.tekhn.nauk

Beconomic efficiency of using diesel locomotives for switching operations. Zhel.dor.transp.36 no.5:44-47 My '55.

(Diesel locomotives)

(Railroads—Switching)



AKSENOV. V.I.s. kend. tekhn. neuk; NURMUKHAMEDOV, R.Z., kend. tekhn. neuk
(stentsiya Srychka)

Blectric locomotives used for switching. Zhel. dor, transp. 40
no. 7:70-72 J1 '58. (MIRA 11:7)

(Blectric locomotives)

(Reilroads--Switching)

Methods for calculating the capacity of railroads. Vest. TSNII MPS
18 no.5:52-53 Ag '59. (MIRA 13:1)

1.Tashkentskiy institut inzhenerov zheleznodorozhnogo transporta. (Railroads)

AKSENOV, Vasiliy Ivanovich; DANILOV, Yuriy Vladimirovich; YEGOROV,
Viktor Konstantinovich; FOMIN, Yuriy Alekseyevich; VASIL'YEVA,I.,
red. izd-va; SMIRNOVA, G.V., tekhn. red.

[The K-125 and K-175 motorcycles and their modifications; construction, operation and the catalog of interchangeable parts] Mototsikly K-125, K-175 i ikh modifikatsii; ustroistvo, ekspluatatsiia i katalog vzaimozameniaemykh detalei. Moskva, Mashgiz, 1962. 198 p.

(MIRA 15:7)

(Motorcycles)

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AKSENOV, V.I., kend.tekhn.nauk (Tashkent)

Effect of the organization system of the work of locomotives on the size of the working car fleet. Zhel.dor.transp. 46 no.6:40-42 Je '64.

(MIRA 18:1)

AKSENOV, Valentin Ivanovich, kand.tekhn.nauk; ANPILOV, V.P., inzh., otv. red.; MAKHKAMOV, U., tekhn.red.

[Capacity value of the expansion of tracks on railroad lines and its potentials under the conditions of diesel and electric traction] Emkost' putevogo razvitiia zheleznykh dorog i ee rezervy v usloviiakh teplovoznoi i elektrovoznoi tiagi. Tashkent, 1960. 71 p. (Tashkent. Institut inzhenerov zheleznodozhnogo transporta. Trudy, no.13). (MIRA 15:2)

(Railroads-Management)

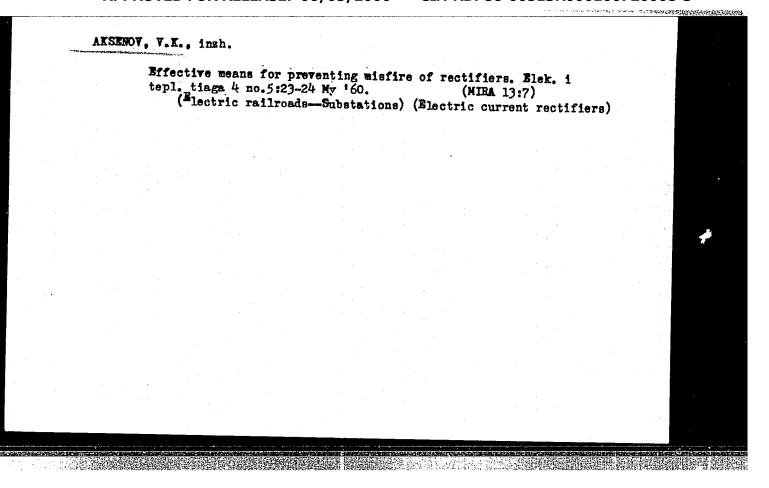
BEBRIS, K.D.; VERESOTSKAYA, N.V.; NOVIKOV, M.I.; AKSENOV, V.I.; KABICHKINA, S.I.

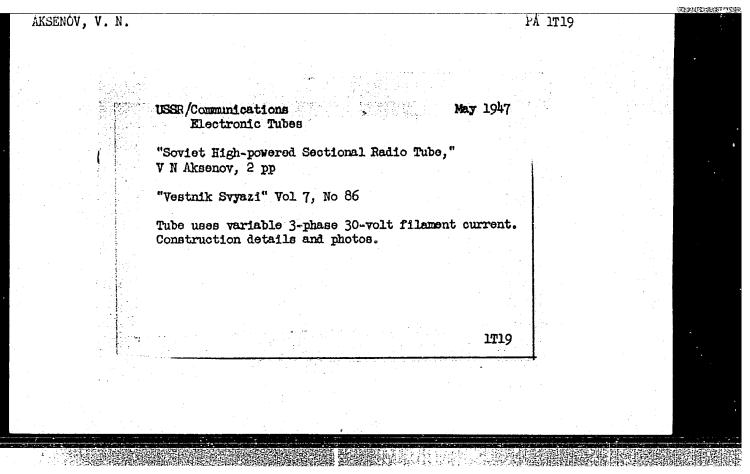
Effect of the method of mixing on the properties of rubber made from oil-extended butadiene-styrene raw material.

Kauch. i rez. 22 no.6:17-20 Je '63. (MIRA 16:7)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.
(Rubber, Synthetic—Testing)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100720008-3"





AKSENOV, V. N. (ENGR) -- "ANALYSIS AND EXPERIMENTAL INVESTIGATION OF NEW CIRCUITS FOR CONTROL AND PROTECTION OF HIGH-VOLTAGE RECTIFIERS OF FOWERFUL RADIO STATISTS."

CONTROL AND PROTECTION OF HIGH-VOLTAGE RECTIFIERS OF FOWERFUL RADIO STATISTS."

Sub 30 Jun 52, Moscow Electrical Engineering Inst of Communications (Dissertation for the Degree of Candidate in Technical Sciences)

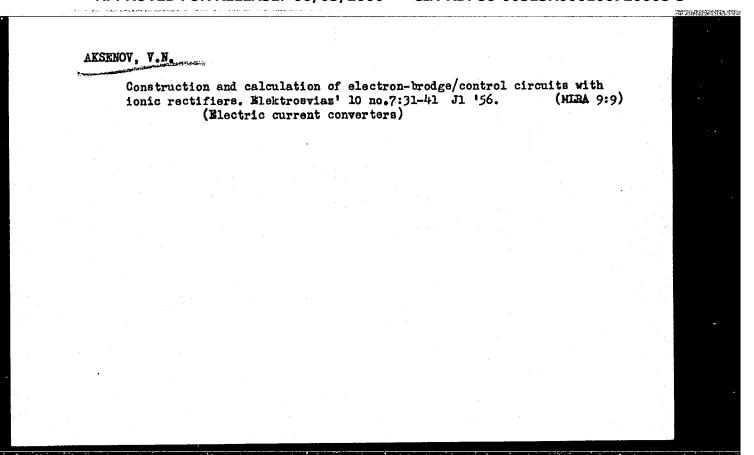
SO: Vechernaya Moskva, January-December x952

TEHENT'YEV, B.P., professor, doktor tekhnicheskikh nauk; AKSENOV, V.N., kandidat tekhnicheskikh nauk, dotsent

Electronic control and the protection of powerful rectifiers. Vest. sviazi 15 no.6:8-11 Je '55. (MERA 8:7)

1. Zaveduyushchiy kafedroy radioperedayushchikh ustroystv Moskovskogo elektrotechnicheskogo instituta svyazi (for Terent'yev). 2. Vassoyus-nyy Zaochnyy elektrotekhnicheskiy institut svyazi (for Aksenov)

(Radio--Rectifiers) (Electronic control)



AKSENOV, V. N.

POWER SUPPLIES

"Concerning the Calculation of an Adjustable Rectifier with Allowance for the Effect of Phase Overlap", by V.N. Aksenov, Elektrosvyaz', No 12, December 1957, pp 30-36.

This appears to be the first attempt to treat analytically grid-control rectifiers inductance-loaded with allowance for the sector of the phase overlap.

The author gives a procedure for his calculations in generalized coordinates of the characteristics, the short-circuit current, and the output ripple.

Tables and graphs accompany the analytic discussion.

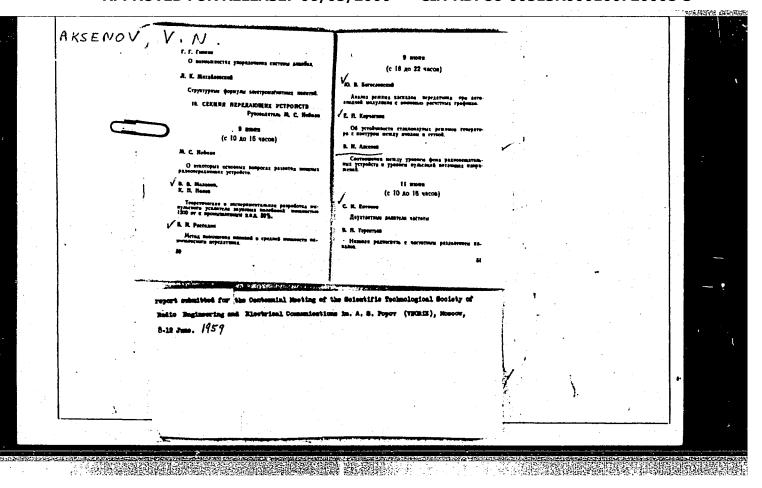
Card 1/1

Card 1/1

AKSENOV, V. N.

V. N. Aksenov, "Use of throttle chokes to limit short circuit currents for back firing in rectifiers." Scientific Session Devoted to "Radio Day", May 1958, Trudrezervizdat, Moscow, 9 Sep 58.

It is proposed to use chokes magnetized by rectifier current under normal operating conditions to limit short circuit currents in supply circuits. The magnetization is cut off in the short-circuit region and the chokes effectively limit short circuit current. It is shown that the volume and cost of the chokes, for a logical choice of the parameters, will not exceed 25 - 30 percent of the cost of a plate transformer and the power coefficient in the normal operating region is almost unreduced.



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CIA-RDP86-00513R000100720008-3

sov/106-59-7-7/16

AUTHOR: Aksenov, V.N.

TITLE:

Control Accuracy Criteria of Ionic Rectifiers

PERIODICAL: Elektrosvyaz', 1959, Nr 7, pp 45 - 51 (USSR)

ABSTRACT: Ionic rectifiers with control grids are widely used to supply radio-transmitting apparatus. Phase control is almost exclusively used since this gives more accurate "fixing" of the instant the valves are triggered than grid-bias control does. Usually, the leading edge of the triggering pulse has an arbitrary slope and is not related to the control accuracy, but the control accuracy

has considerable effect on the rectifier operation, particularly on the nature and level of the background

noise in the radio equipment.

Traccurate "fixing" of the in

Inaccurate "fixing" of the instant the valves in each phase conduct leads to instability in the rectified voltage and to the appearance in its composition of parasitic alternating components, which have random amplitudes and frequencies. It can be shown that the first harmonic of the parasitic component for is always lower than the

Cardl/11 fundamental frequency of m-phase normal pulsations,

Control Accuracy Criteria of Ionic Rectifiers

i.e. $f \leq f_{n1} \leq mf$, where f is the frequency of the supply. The rectifier filter will have times less attenuation to the parasitic frequency component than to the fundamental. Therefore, with inexact operation of the controlled rectifier conditions arise in which the amplitude of the parasitic component at the filter output is greater than the fundamental and, consequently, this component determines the noise levels in the transmitter. The author then investigates the connection between the level of the parasitic noise and the accuracy of the control. As a result of jitter ΔE in the trigger voltage, the control angle α varies within the limits $\alpha^{n} \leqslant \alpha \leqslant \alpha'$. This variation in control angle causes voltage instability in the rectifier output, the relative value of which is:

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SOV/106-59-7-7/16 Control Accuracy Criteria of Ionic Rectifiers

$$N = \frac{E_0' - E_0''}{cos \alpha' - cos \alpha''} = \frac{2(\cos \alpha' - \cos \alpha'')}{cos \alpha' + cos \alpha''} = \frac{E_0''}{cos \alpha'' + cos \alpha''}$$

$$= 2 tg \frac{\alpha'' + \alpha'}{2} tg \frac{\alpha'' - \alpha'}{2}$$

$$(cp = mean)$$

where:

$$\frac{\alpha^{11} + \alpha^{1}}{2} = \alpha_{cp}$$

thus,

Card3/11

$$N = 2tg \alpha_{cp} tg \frac{\alpha'' - \alpha'}{2}$$

(1)

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Control Accuracy Criteria of Ionic Rectifiers

and the reciprocal, the so-called control accuracy, is given by:

$$T_y = \frac{1}{N} = 0.5 \text{ ctg } \alpha_{cp} \text{ ctg } \frac{\alpha'' - \alpha'}{2}$$
 (2).

Considering the worst condition, when one half of the valves working one after the other have a control angle α^{\dagger} and the second half, an angle α^{\dagger} , then the rectified voltage over the first half period of the supply voltage will have a value E_0^{\dagger} and over the second half period E_0^{\dagger} (Figure 1). The mean voltage E_0^{\dagger} appears at the output of the filter. Superimposed on this voltage will be the usual frequency component mf and the parasitic component, the first harmonic of which will have the frequency of the supply f. The amplitude of this harmonic U_{nl} will be the first harmonic of a rectangular

Card4/11 pulse having a height (E'-E")/2 and a duration equal

SOV/106-59-7-7/16

Control Accuracy Criteria of Ionic Rectifiers

to half a period. Its value is determined by Eq (3). The relative level of this parasitic component at the filter input is:

$$K_{nl} = \frac{U_{nl}}{E_{ocp}} = \frac{2}{17} \frac{E_o' - E_o''}{E_{ocp}} = \frac{2}{17}$$

$$(4)$$

and at the filter output:

$$K_{n2} = \frac{K_{n1}}{q_n} \approx \frac{2}{\pi T_y} \left(\frac{f_p}{f}\right)^2$$

where:

$$q_n \approx \left(\frac{f}{f_p}\right)^2$$

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Control Accuracy Criteria of Ionic Rectifiers

Whence for a given K_{n2} the necessary control accuracy is:

$$T_{y} = \frac{2}{\pi K_{n2}} \left(\frac{f_{p}}{f}\right)^{2} \tag{5}$$

A numerical example is then given. The author next investigates graphically the slope required for the leading edge of the trigger pulse (Figure 2). Graph A shows a family of triggering curves in a co-ordinate system $u_a = f(-E_g)$. Using graph $f(-E_g)$, on which are drawn the curves of the phase voltages $u_2 = f(\omega t)$, graph B can be constructed where the trigger characteristics (Curves l_a , l_a , l_a) are obtained in a co-ordinate system $l_g = f(\omega t)$ for a given amplitude of anode voltage l_{aM} . The bias l_g is chosen so that it lies below the lowest point of the trigger characteristics

Card6/11

SOV/106-59-7-7/16 Control Accuracy Criteria of Ionic Rectifiers

 $E_g = f(\omega t)$. Initially, it is assumed that a sinusoidal voltage u_g is applied to the bias and the phase of this voltage can be moved along the time axis ωt . Let the triggering characteristic be (2a) and let u_g coincide with the phase of the supply voltage u_a . The the author shows that the mean slope S_{cp} (volt/radians) of the trigger pulse over the interval $b - \lambda$ (Figure 2) must be:

$$s_{ep} \approx \frac{2^{\Delta} E_{g} t_{g} \frac{i \Upsilon}{m}}{\pi K_{n2}} \left(\frac{f}{f}\right)^{2}$$
 (10)

and the grid voltage amplitude $\mathbf{U}_{\mathbf{gM}}$ must be:

Card7/11

Control Accuracy Criteria of Ionic Rectifiers

$$U_{gM} = \frac{2\sqrt{2} \Delta E_{g} t_{g} \frac{n}{m}}{m K_{n2}} \left(\frac{f}{f}\right)^{2}$$
(12).

Numerical examples are given for m=3 and m=6. The values of U_{gM} obtained, $4\,300\,V$ and $1\,400\,V$, are not acceptable in many practical cases and the use of special steep-fronted pulses, as used in many contemporary applications, is therefore fully justified. It is possible to calculate the necessary slope of the leading edge of these pulses by Eq (10). The height should be such that it overlaps the bias applied to the grid and a value $U_{gM}=(1.2-1.5)E_{gO}$ is recommended. This value is many

Card8/11

Control Accuracy Criteria of Ionic Rectifiers SOV/106-59-7-7/16

times less than the value required for sinusoidal waveform. To determine the duration of the trigger pulse, two practical cases are considered:

- 1) A simple multiphase rectifier circuit;
- 2) A "stage" rectifier circuit (Vologdin or Larionov circuit).

In the first case, the duration of the upper part of the pulse t_u when $u_g \ge |E_{go}|$ must cover only the ionization time of the valve τ_u , i.e. be not less than 10^{-6} sec.

Thus, $t_u \geqslant v_u$ (Figure 3, Curve a).

In the second case, due to operation of two valves, successively with 60° phase change the duration of the upper part of the pulse should be greater than 60° , i.e.

$$t_{u}^{i} \geqslant \frac{1}{6f} + r_{u}$$

Card9/11 and the horizontal part of the pulse should not fall lower

Control Accuracy Criteria of Ionic Rectifiers

than 1.2E (Figure 3, Curve 6). Also when the pulse width is small, the grid of the valve is negative for a large part of the time and it suffers from ion bombardment. Thus, the optimum pulse shape during the time anode current flows is as shown in Figure 4 and:

$$t_u = 1/mf$$
 sec.

The duration of the leading edge of the pulse can be found from:

$$t_{cp} = \frac{U_{gM}}{2\pi f s_{cp}} \quad sec$$

The slope and duration of the trailing edge are not critical.

Card 10/11

S/194/61/000/007/075/079 D201/D305

AUTHOR:

Aksenov, V.N.

TITLE:

The relationship between the background noise level of broadcasting installations and the ripple of

their power supplies

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 54, abstract 7 K365 (V sb. 100 let so dnya rozhd. A.S. Popova, M., AN SSSR, 1960, 294-310)

TEXT: Design formulae are derived and given for determining the allowable ripple level (at the output of the smoothing filters) of the anode and grid supply circuits, as depending on the allowable background noise in the following cases: The stages of transmitters with anode or grid modulation, intermediate HF-stages, modulated signal amplification and LF. 4 references. Abstracter's note: Complete translation

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AKSENOV, Vladimir Nikolayevich; TERENT'YEV, B.P., otv. red.; NOVIKOVÁ, Ye.S., red.; MARKOCH, K.G., tekhn. red.

[Rectifiers and transformer substations] Vypriamiteli i transformatornye podstantsii. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 439 p.

(Electric substations) (Electric current rectifiers)

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Background noise

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In the above mentioned work, the coefficients K_{backgr i} were determined as functions of the pulsation coefficients of anode and grid voltages. No satisfactory method exists as yet for calculating the dependence of K_{backgr} on the heating circuit conditions, but experimental data are available for tungsten-cathode tubes, that permit the determination of the coefficient of the background noise in the anode circuit if the heating conditions are known. A table containing these data is reproduced in the article. The author deduces next a formula giving the resultant K_{backgr} in the case of a multistage 1-f amplifier. A numerical example - calculation of the resultant K_{backgr} in the case of a three-stage modulator with tungsten triodes - is given at the end of the article. There are 1 figure and 1 table.

SUBMITTED: March 27, 1962

Card 3/3

122-57-8-17662

Translation rom: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, pp 255-256 (USSR)

AUTHOR: Aksenov, V. P.

TITIE: On the Design of a Parallel Balanced DC Voltage Amplifier (K raschetu parallel'nogo balansnogo usilitelya postoyannogo napryazheniya)

PERIODICAL: Tr. Mosk. energ. in-ta (Transactions of the Moscow Power-Engineering Institute), 1956, Nr 18, pp 344-358

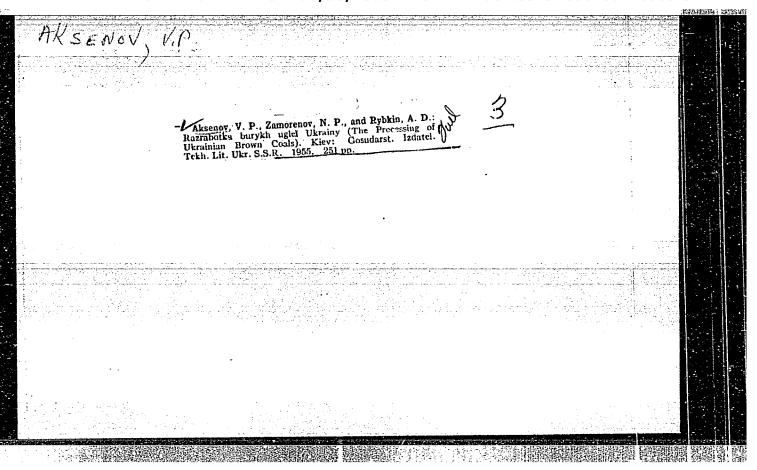
ABSTRACT: Design formulae are presented for determining anode currents in a symmetrical parallel balanced DC-amplification stage; the formulae allow for variations in tube parameters and in load resistances of both halves of the stage. Equations of the differential amplification factor and the level-amplification factor are given; a numerical example of amplifier design having 3 parallel balanced stages is presented.

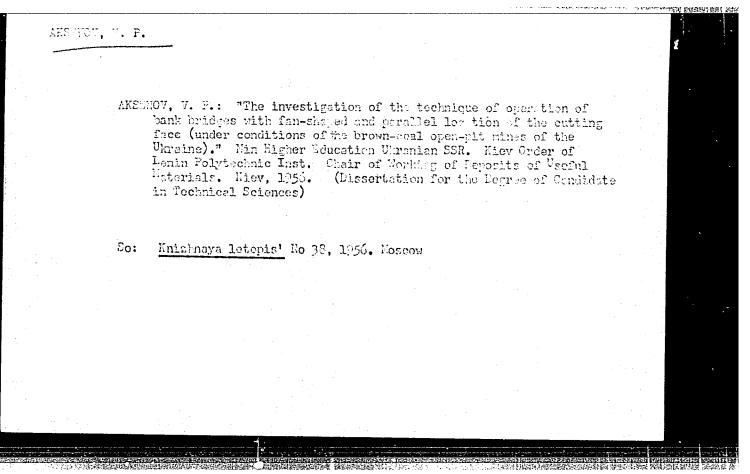
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AKSENOV, V. P., Candidate of Tech Sci (diss) -- "Investigation of the assembly of instruments for dynamic impulse testing of receiver amplifier tubes! Moscow, 1959.

16 pp (Min Higher Educ USSR, Moscow Order of Lenin Power Engineering Inst), 150 copies (KL, No 22, 1959, 113)





Evaluating the effectiveness of open-pit mining of the Stebnik deposit of potassium salts. Nauch. zap. Ukrniiproekta no.2:92-98 '60.

(Ukraine--Potassium salts)

AKSENOV, V.P., kand.tekhn.nauk; MEL'NIK, N.A., inzh.

Establishing the optimum length of the front of an open pit when using conveyer haulage of the overturden. Nauch. zap. Ukrniiproekta (MIRA 15:1)

(Conveying machinery)

ZHERBIN, M.M., kand.tckhn.nauk; NINIDZE, K.K., gornyy inzhener; AKSENOV,

V.P., kand.tckhn.nauk; DUKHOVNYY, S.D., gornyy inzhener

Urgent tasks in the field of open-pit mining of mineral deposits in the Ukraine. Ugol' Ukr. 5 no.11:30-33 N '61. (MIRA 14:11)

1. UkrNIIproyekt.

(Ukraine--Mines and mineral resources) (Strip mining)

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AKSENOV, V.P., kand.tekhn.nauk; MEL'NIK, N.A., inzh.

Establishment of an efficient anumel rate of production in manganese pits of the Nikopol' deposit. Nauch.zap.Ukrniiproekta no.5:96-104 '61. (MIRA 15:7)

(Nikopol' region-Strip mining)

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AKSENOV, V. P., kand. tekhn. nauk

Determining the weight characteristics of continuous mine transportation equipment and efficient mine parameters in using it. Sbor. trud. MISI no.39:285-287 161.

(MIRA 1684)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti.

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Continuous action equipment complex for open-pit mining. Ugol'
Ukr. 6 no.10:22-25 0 62. (MIRA 15:10)

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IVONIN, Ivan Pavlovich; DAVYDOV, Viktor Viktorovich; ZORIN, Leonid Fedorovich; IVANNIKOV, Ivan Andreyevich; AKSENOV, V.P., kand. tekhn. nauk, retsenzent; BYKHOVSKAYA, S.N., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

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AKSKNOV, V.P., kend. tekhn.nauk; HKLYAKOV, Yu.I., kand. tekhn.nauk; PINCHUK, A.N., inzh.

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RODIONOV, G.W., doktor tekhn.nauk; AKSENOV, V.P., kand.tekhn.nauk;
VLADINIROV, V.M., kand.tekhn.nauk; PRISKOSKIY, G.V., insh.

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(Excavating machinery) (Mining machinery)

EUYANOV, Yuriy Dmitriyevich, kand. tekhn. nauk; AVERCHENKOV,
Anatoliy Pavlovich, gornyy inzh.; BESSNERTNYY, Konstantin
Sergeyevich, gornyy inzh.; AKSEROV, V.P., kand. tekhn.
nauk, retsenzent; BEINAKOV, Yu.I., MANT. tekhn. nauk,
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Mine transportation equipment of continuous operation used in strip mine construction. Shakht. stroi. 7 no.326-11 Mr 163 (MIRA 17:7)

1. Gosudarstvennyy nauchno-issledovatel skiy i proyektnyy institut ugol noy, rudnoy, neftyanoy i gazovoy promyshlennosti UkrSSR.

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AKSENOV, V.P.; ROZENPLENTER, A.E., kand. tekhn. nauk; CHERNYAVSKIY, A.T.

Efficient correlation between the height of the top and bottom scooping of rotary excavators. Met. i gornorud. prom. no.2:67-69
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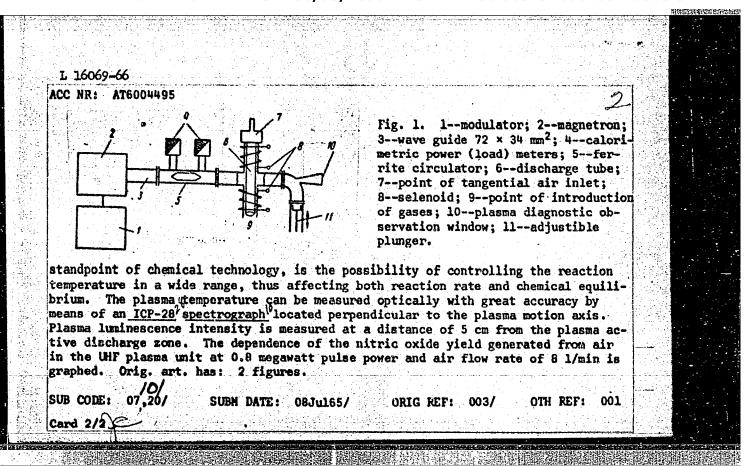
LEPILKIN, N.M., inzh.; AKSENOV, V.P., kand. tekhn. nauk; KUKHARCHUK, N.N., inzh.; KABYSH, V.L., inzh.; LYALIN, Yu.K., inzh.

Method of laying out quarries for the quarrying of rock products.

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l. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti UkrSSR, Kiyev.

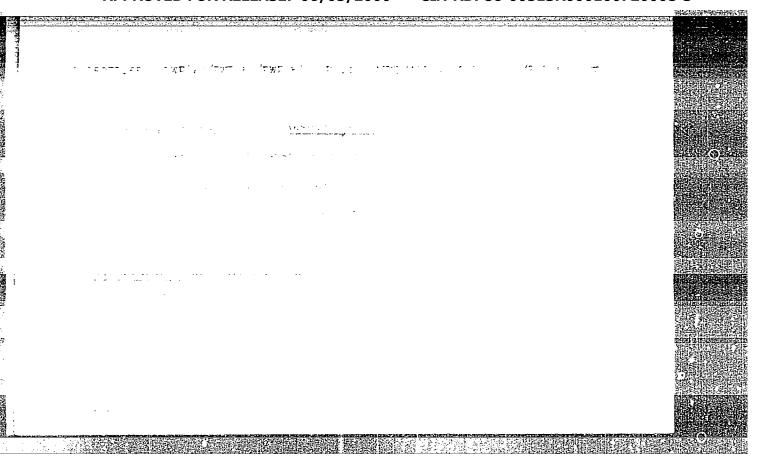
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chemical read	STIONS IN LOW-Composition of the state of th	
PODIC TACS	high energy plasma, plasma device, plasma generator, nitric oxide, plas-	
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ABSTRACT: I	t is indicated that UHF plasma discharge at above atmospheric pressures	
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EWT(1)/EWP(e)/EWT(m)/T/EWP(j)WW/WE/GG/AI/TON/HII IJP(c) L 39042-66 UR/0081/66/000/005/I012/I012 SOURCE CODE: ACC NR AR6022896 AUTHOR: Aksenov, V. P.; Hlinov, L. M.; Marin, V. P.; Polak, L. S.; Shchipachev, V. S. SHF plasmatron and some possible areas of its application in chemistry TITLE: **二 ジ** Ref. zh. Khimiya, Part II, Abs. 5I101 REF SOURCE: Sb. Kinematika i termodinamika khim. reaktsiy v nizkotemperaturn. plazme, M., Nauka, 1965, 233-237 TOPIC TAGS: plasmatron, SHF, chemical synthesis, ionizing religion uvaduate ABSTRACT: It is shown that by using the ionizing effect of SHF radiation one can carry out the following processes: synthesis of ammonia, recovery of nitrogen oxides from air (in the production of nitric acid); synthesis of hydrochloric acid, hydrocyanic acid; recovery of sulfur from hydrogen sulfide and flue gases; petroleum cracking; prep aration of acetylene from methane; production of alcohols; chlorination, nitration, hydroxylation, carboxylation reactions; synthesis of benzene, bipheny, phenol; polymerization of ethylene into polyethylene; preparation of pyroceramics; preparation of ultrapure films and metals. A diagram of the pulsed SHF device is given, and certain characteristics of the SHF discharge are described. Results of measurements of the temperatures and concentrations of electrons and ions in the SHF discharge and of preliminary experiments on the formation of nitrogen oxides in the SHF plasmatron are given. G. L. [Translation of abstract] SUB CODE: 07

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